



## Program summary

# SWING CLAMPS

up to operating pressures  
of 500 bar

single and double acting

7 different body types

maximum clamping force  
from 0.6 to 41 kN

maximum clamping stroke  
from 7 to 50 mm

overload protection device  
reinforced swong mechanism

position monitoring  
metallic wiper





## Program summary SWING CLAMPS

Body type	Flange at the bottom									Block						
Hydraulic connection	Pipe thread				Drilled channels					Pipe thread Drilled channels						
Overload protection device	-				●					●						
Reinforced or sturdy swing mechanism	● *				-					-						
<b>Data sheet</b>	<b>B 1.849</b>				<b>B 1.881</b>					<b>B 1.8811</b>			<b>B 1.8812</b>		<b>B 1.890</b>	
• double acting	<b>B 1.8491</b>				<b>B 1.881</b>					-			-		-	
• single acting	-				-					-			-		-	
Max. operating pressure	350 bar				500 bar					500 bar		500 / 160 bar (2)		500 bar		
Position monitoring	-				○					○		○		-		
Seat of clamping arm	cone				cone					cone		pendulum eye / fork head		cone		
Sealings / Wiper	NBR/FKM				NBR/FKM					NBR/FKM		NBR/FKM		NBR/FKM		
Max. operating temperature	+100 °C				+100 °C					+100 °C		+100 °C		+100 °C		
Metallic wiper	-				○ *					○		○		-		
Approx. value clamping time for the shortest stroke	0.25 s				1 s					0.75 s		0.75 s		1 s		
Piston rod diameter	10 mm	20	32	40	50 mm	32	40	50 mm	20	32 mm	20	32	50 mm			
Piston diameter	14 mm	25	40	50	63 mm	40	50	63 mm	25	40 mm	25	40	63 mm			
Max. clamping force (1)	2.2 kN	2.8	6.8	10.5	16.5 kN	6.8	10.5	16.5 kN	4.4/1.4	11.2/3.6 kN(2)(3)	2.8	6.8	16.5 kN			
Clamping stroke for double-acting version	8 mm	11	14	15	15 mm	22	20	20 mm	25	22 mm	7	8	11 mm			
		25	25	25	25 mm											
		50	50	50	50 mm											
Max. flow rate for clamping	5 $\frac{\text{cm}^3}{\text{s}}$	3	10	18	28 $\frac{\text{cm}^3}{\text{s}}$	20	36	55 $\frac{\text{cm}^3}{\text{s}}$	8	20 $\frac{\text{cm}^3}{\text{s}}$	3	10	28 $\frac{\text{cm}^3}{\text{s}}$			

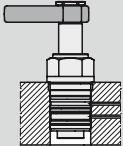
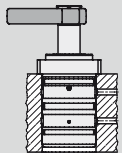






**Legende:**

- Series production
- Option
- not available
- \* only for double-acting version

- (1) with the pictured one-sided series clamping arm with contact bolt; with shorter clamping arms or double clamping arms considerably higher clamping forces can be obtained (maximum 41 kN)
- (2) version with pendulum eye 500 bar / fork head 160 bar
- (3) at max. operating pressure and double clamping arm per side
- (4) only for double-acting version with O-ring sealing
- (5) standard version with metallic wiper edge

Flange at the top										Thread				Screw on		
Pipe thread					Drilled channels					Pipe thread				Pipe thread		
-	●				-	-				●	●			●		
●*	-				●	●				-	-			-		
<b>B 1.849</b>					<b>B 1.880</b>					<b>B 1.881</b>				<b>B 1.883</b>		
<b>B 1.8491</b>					<b>B 1.8801</b>					<b>B 1.881</b>				<b>B 1.883</b>		
<b>B 1.880</b>					<b>B 1.8802</b>					<b>B 1.881</b>				<b>B 1.883</b>		
<b>B 1.880</b>					<b>B 1.885</b>											
350 bar					500 bar					500 bar				500 bar		
-					○					-				-		
cone					cone					cone				cone		
NBR / FKM					NBR / FKM					NBR / FKM				NBR / FKM		
+100 °C					+100 °C					+100 °C				+100 °C		
○ (4)					○*					○*				-		
0.25 s					1 s					0.75 s				1 s		
10 mm					20 32 40 50 mm					20 32 mm				20 mm		
14 mm					25 40 50 63 mm					25 40 mm				23 mm		
2.2 kN					2.8 6.8 10.5 6.5 kN					4.4/1.4 11.2/3.6 kN(2)(3)				2.8 6.8 10.5 16.5 kN		
8 mm					11 14 15 15 mm					25 22 mm				7 mm		
					25 25 25 25 mm					50 50 50 50 mm				7 8 11 mm		
5 $\frac{\text{cm}^3}{\text{s}}$					3 10 18 28 $\frac{\text{cm}^3}{\text{s}}$					8 20 $\frac{\text{cm}^3}{\text{s}}$				3 10 18 28 $\frac{\text{cm}^3}{\text{s}}$		
					20 36 55 $\frac{\text{cm}^3}{\text{s}}$									1.5 $\frac{\text{cm}^3}{\text{s}}$		
														3 10 28 $\frac{\text{cm}^3}{\text{s}}$		



Threaded-body								Cartridge					
Drilled channels								Drilled channels					
													
-	-	●	●	-				●					
●	●*	-	-	●				-	●				
													
													
													
													
													
<b>B 1.848</b>	<b>B 1.849</b>	<b>B 1.891</b>	<b>B 1.892</b>	<b>B 1.8921</b>				<b>B 1.8803</b>	<b>B 1.852</b>				
-	<b>B 1.8491</b>	<b>B 1.891</b>	<b>B 1.892</b>	-				-	-				
150 bar	350 bar	500 bar	500 bar	500 bar				500 bar	350 bar				
-	-	-	-	○				-	○				
cylindrical	cone	cone	cone	cone				cone	cone				
FKM	NBR / FKM	NBR / FKM	NBR / FKM	NBR / FKM				NBR / FKM	NBR / FKM				
+150 °C	+100 °C	+100 °C	+100 °C	+100 °C				+100 °C	+100 °C				
(5)	○*	-	○*	○				○	○				
0.2 s	0.25 s	1 s	1 s	0.75 s				1 s	0.2 s				
6 mm	10 mm	20 mm	20	32	50 mm	32	50 mm	20	32	40	50 mm	16	20 mm
10 mm	14 mm	23 mm	25	40	50 mm	40	63 mm	25	40	50	63 mm	23	28 mm
0.6 kN	2.2 kN	4.0 kN	2.8	6.8	16.5 kN	6.8	16.5 kN	2.8	6.8	10.5	16.5 kN	4,5	6 kN
8 mm	8 mm	7 mm	11	14	15 mm	22	20 mm	11	14	15	15 mm	12	12 mm
								25	25	25	25 mm		
$6 \frac{\text{cm}^3}{\text{s}}$	$5 \frac{\text{cm}^3}{\text{s}}$	$1.5 \frac{\text{cm}^3}{\text{s}}$	3	10	$28 \frac{\text{cm}^3}{\text{s}}$	20	$55 \frac{\text{cm}^3}{\text{s}}$	3	10	18	$28 \frac{\text{cm}^3}{\text{s}}$	10	$14 \frac{\text{cm}^3}{\text{s}}$